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POWXQ5234 CORDLESS DRILL 18V

1 APPLICATION

The power tool is intended for driving and drilling through wood, metal, plastics and masonry. It is not designed for commercial use.

WARNING! Read this manual and general safety instructions carefully before using the appliance, for your own safety. Your power tool should only be passed on together with these instructions.

2 DESCRIPTION (FIG. A)

1. Keyless chuck
2. Torque adjustment ring
3. Speed selector switch knob
4. On/off switch
5. Battery pack
6. Auxiliary handle
7. Forward/reverse knob
8. Screw bits
9. Battery pack release button

3 PACKAGE CONTENTS LIST

- Remove all packing materials
- Remove remaining packaging and transit supports (if existing)
- Check the completeness of the packing content
- Check the appliance, the power cord, the power plug and all accessories for transportation damages.
- Keep the packaging materials as far as possible till the end of the warranty period. Dispose it into your local waste disposal system afterwards.

WARNING Packing materials are no toys! Children must not play with plastic bags! Danger of suffocation!

- Cordless impact drill
- 3pcs screw bits (1pc on cordless drill)
- 2pcs battery (1 mounted)
- 1pc charger
- 1pc auxiliary handle (on cordless drill)
- Instruction manual

When parts are missing or damaged, please contact your dealer.

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4 SYMBOLS

The following symbols are used in this manual and/or on the machine:

	Denotes risk of personal injury, loss of life or damage to the tool in case of non-observance of the instructions in this manual.
	Warning-to reduce the risk of injury, user must read instruction manual.
	Fire hazard!
	Conforms to all regulatory standards in the country EU where the product is purchased.
	Always wear hearing protection with impact drills. Exposure to noise can cause hearing loss.
	Do not expose charger and battery pack to water

5 GENERAL POWER TOOL SAFETY WARNINGS

Read all safety warnings and all instructions. Failure to follow all warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference. The term "power tool" in the warnings refers to your mains operated (corded) power tool or battery operated (cordless) power tool.

5.1 Work area

- Keep work area clean and well lit. Cluttered and dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

5.2 Electrical safety

Always check that the power supply corresponds to the voltage on the rating plate.

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

5.3 Personal safety

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used whenever conditions require will reduce personal injuries.
- Avoid accidental starting. Ensure the switch is in the off position before plugging in. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
- Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust related hazards.

5.4 Power tool use and care

- Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- Maintain power tools. Check for misalignment or sticking of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to stick and are easier to control.
- Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from intended could lead to a hazardous situation.

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5.5 Service

- Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

6 ADDITIONAL SAFETY INSTRUCTIONS

- Always wear hearing protection with impact drills. Exposure to noise can cause hearing loss
- Use auxiliary handle(s), if supplied with the tool. Loss of control can cause personal injury.
- Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

7 ADDITIONAL SAFETY INSTRUCTIONS FOR BATTERIES AND CHARGERS

Batteries

1. Never attempt to open for any reason.
2. Do not store in locations where the temperature may exceed 40 °C.
3. Charge only at ambient temperatures between 10°C and 40 °C.
4. Charge only using the charger provided with the tool.
5. When disposing of batteries, follow the instructions given in the section “Protecting the environment”.
6. Do not cause short circuits. If connection is made between the positive (+) and negative (-) terminal directly or via accidental contact with metallic objects, the battery is short circuited and an intense current will flow causing heat generation which may lead to casing rupture or fire.

7. Do not heat. If batteries are heated to above 100 °C, sealing and insulating separators and other polymer components may be damaged resulting in electrolyte leakage and/or internal short circuiting leading to heat generation causing rupture or file. Moreover do not dispose of the batteries in fire, explosion and/or intense burning may result.
8. Under extreme conditions, battery leakage may occur. When you notice liquid on the battery, proceed as follows:
    - - Carefully wipe the liquid off using a cloth. Avoid skin contact.
    - - In case of skin or eye contact, follow the instructions below:
        i. Immediately rinse with water. Neutralize with a mild acid such as lemon juice or vinegar.
        ii. In case of eye contact, rinse abundantly with clean water for at least 10 minutes. Consult a physician.

Chargers

1. Use the charger provided with the tool only to charge the battery
2. Never attempt to charge non-rechargeable batteries.
3. Have defective cords replaced immediately.
4. Do not expose to water.
5. Do not open the charger.
6. Do not probe the charger.
7. The charger is intended for indoor use only.

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8 FEATURES

8.1 Keyless chuck (1)
Your drill has a keyless chuck that allows you to hand tighten or release drill bit in the chuck jaws.

8.2 Torque adjustment ring (2)
The drill has a torque adjustment ring. It allows you to select the desired torque depending on the task you have to perform (drill / different types of screws into different materials). The proper setting depends on the type of material and the size of screw you are using.

8.3 Forward/reverse selector (right/left rotation selector) (7)
The drill has a forward/reverse selector located above the switch trigger.
Press selector F(orward)/R(everse) on left side of machine (to the right side): drill turns left (reverse/loosen screws)
Press selector F(orward)/R(everse) on right side (to the left side): drill turns right (forward/fasten screws).
CAUTION: To prevent damage to the gearbox, always allow the chuck to come to a complete stop before changing the direction of rotation or selecting another speed (HI-LO). To stop, release the trigger switch.

8.4 Variable speed (4)
Your cordless drill has a variable speed switch. The rotational speed and torque will in-/ decrease equivalently to applied trigger pressure. This drill has an electric brake, when the trigger switch is released, the chuck stops turning.

8.5 Speed selector (3)
Your cordless drill has a two-speed gear, designed for drilling or driving at **LO (Low)** or **HI (High)** speed. A slide switch is located on top of your drill to select either **LO (Low)** or **HI (High)** speed.

9 (PRE)OPERATION
WARNING: Do not allow familiarity with the drill make you careless. One careless fraction of a second is sufficient to inflict severe injury.

9.1 Charging the battery pack
The battery pack for this tool is supplied in a low charge condition to prevent possible problems, therefore, you have to charge the battery before first use.
Note: The battery will not reach full charge after the first charge. Allow several cycles (drilling followed by recharging) for them to become fully charged.
TO CHARGE

Charge battery pack solely with the charger provided !

Make sure that the power supply is 230 Volts AC / 50Hz.

Connect the charger to the power supply. Attach the battery pack (5) to the charger by aligning the ribs on battery pack (5) with grooves on the charger, then slide battery pack (5) into the charger. The red light is flickering now.
When the battery is fully charged the red light goes off and the green light goes on.
The battery pack will become slightly warm while charging. This is normal and does not indicate a problem. A forced ventilation helps to cool down the charger.
Do not place charger in an area of extreme heat or cold. It will work best at normal room

temperature.
When the battery is fully charged, unplug your charger from the power supply and remove the battery pack from the charger.
CAUTION:
To prevent damage to the battery pack, remove the battery pack immediately from the charger when no LED illuminates. Return battery pack and charger to your dealer for checking or replacing.
Do not insert a battery pack into a damaged charger, it may damage your battery pack.

9.2 Install/remove battery pack.

9.2.1 To install battery pack on your cordless drill

Lock the switch trigger (4) on the drill by placing the forward/reverse) selector in its centre position. Place the battery pack in the drill. Align the raised rib on battery pack with the groove inside the drill. (Make sure the latches on each side of your battery pack snap in place and battery pack is secured in the drill before beginning operation.)

9.2.2 To remove battery pack

Lock the switch trigger on the drill by placing the forward/reverse) selector in its centre position. Locate latches (9) on the side of the battery pack and depress them to release the battery pack from the drill.
The battery pack will automatically disconnect in the direction it should be removed in.
Remove the battery pack from you drill.

9.3 Switch

The drill is started and stopped by depressing and releasing the switch trigger.
Release the switch trigger to turn the drill OFF, in short time because of electric brake.

9.3.1 Switch lock

The switch trigger can be locked in the OFF position.
This helps to reduce the possibility of accidental starting when not in use. To lock the switch trigger, place the direction of rotation selector in the center position.

9.3.2 Direction of rotation

The direction of rotation is controlled by the direction of rotation selector located above the switch trigger.
With the drill held in normal operating position, the direction of rotation selector should be positioned to the left of the switch for drilling. The rotation direction is reversed when the selector is to the right of the switch. When the selector is in the center position, the switch trigger is locked.

9.3.3 Variable speed

This tool has a variable speed switch that delivers higher speed and torque with increased trigger pressure.
Speed is controlled by the amount of switch trigger depression.

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9.4 Installing/removing bits

9.4.1 Installing bits

Lock the switch trigger by placing the direction of rotation selector in centre position.
Open or close chuck jaws to a point where the opening is slightly larger than the bit size you intend to use. Also, raise the front of the drill slightly to keep the bit from falling out of the chuck jaws. Insert drill bit straight into chuck the full length of the jaws as shown in.
Tighten the chuck jaws on the drill bit.
WARNING:
Make sure to insert drill bit straight into chuck jaws.
Do not insert drill bit into chuck jaws at an angle, this could cause drill bit to be thrown from drill resulting in possible serious personal injury or damage to the chuck.

9.4.2 Removing bits

Lock the switch trigger by placing rotation selector in centre position.
Loosen the chuck jaws from the drill bit.
Do not use a wrench to tighten or loosen the chuck jaws.
Remove the drill bit from the chuck jaws.

9.5 Adjustable torque

This drill is equipped with an adjustable torque for driving different types of screws into different materials. The proper setting depends on the type of material and the size of screw you are using.
TO ADJUST TORQUE: Identify the 25 position torque ring located on the front of the drill. Rotate adjusting ring (2) to the desired setting.

1-5	For driving small screws
6-10	For driving screws into soft material
11-15	For driving screws into soft and hard materials
16-20	For driving screws in hard wood
21-25	( ) For heavy drilling
	For hammer drilling

10 DRILLING

10.1 Drilling hard smooth surfaces

When drilling hard smooth surfaces use a centre punch to mark desired hole location. This will prevent the drill bit from slipping off centre as the hole is started. However, the low speed feature allows starting holes without centre punching if desired. To accomplish this, simply operate the drill at a low speed until the hole is started. The material to be drilled should be secured in a vise or with clamps to keep it from turning as the drill bit rotates. Hold tool firmly and place the bit at the point to be drilled. Move the drill bit into the work piece applying only enough pressure to keep the bit cutting. Do not force or apply side pressure to elongate a hole.
WARNING:
Be prepared for binding or bit breakthrough. When these situations occur, drill has a tendency to grab and kick opposite to the direction of rotation and could cause loss of control when breaking through material. If not prepared, this loss of control can result in possible serious injury. If the bit jams in work piece or the drill stalls, release switch trigger immediately. Remove the bit from the work piece and determine the reason for jamming.

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10.2 Wood drilling

For maximum performance, use high speed steel bits for wood drilling. Turn the torque adjustment ring on the drill to desired torque setting. Begin drilling at a very low speed to prevent the bit from slipping off the starting point. Increase the speed as the drill bit bites into the material. When drilling through holes, place a block of wood behind the workpiece to prevent ragged or shintered edges on the back side of the hole.

10.3 Metal drilling

For maximum performance, use high speed steel bits for metal or steel drilling. Turn the torque adjustment ring on the drill to desired torque setting. Begin drilling at a very low speed to prevent the bit from slipping off the starting point. Maintain a speed and pressure which allows cutting without overheating the bit.
Applying too much pressure will:

Overheat the drill
Wear the bearings
Bend or burn bits
Produce off-center or irregular shaped holes

When drilling large holes in metal, it is recommended that you drill with a small bit at first, then finish with a large bit. Also, lubricate the bit with oil to improve drilling action and increase bit life.

10.4 Masonry drilling

For maximum performance use carbide-tipped masonry impact bits when drilling holes in brick, tile etc. Rotate the torque selector to impact position. Apply light pressure and medium speed for best results in brick. When drilling holes in tile, practice on a scrap piece to determine the best speed and pressure.

11 CLEANING AND MAINTENANCE

11.1 Cleaning

- Keep the ventilation slots of the machine clean to prevent overheating of the engine.
- Regularly clean the machine housing with a soft cloth, preferably after each use.
- Keep the ventilation slots free from dust and dirt.
- If the dirt does not come off use a soft cloth moistened with soapy water.
- Never use solvents such as petrol, alcohol, ammonia water, etc. These solvents may damage the plastic parts.

11.2 Maintenance

- Our machines have been designed to operate over a long period of time with a minimum of maintenance. Continuous satisfactory operation depends upon proper machine care and regular cleaning.

11.3 Connecting cable and mains plug

If the connecting cable (or mains plug) is damaged, it must be replaced. Replacement of the connecting cable should only be carried out by a qualified specialist (qualified electrician).

12 STORAGE

- Store it out of the reach of children, in a stable and secure position, in a cool and dry place, avoid too high and too low temperatures.

– Battery storage
  - Store and charge your batteries in cool area. Temperatures below 10 °C (50 °F) or above 38 °C (100 °F) will shorten battery life.

- Never store batteries in discharged condition. Recharge them immediately after they are discharged.
- Batteries gradually lose their charge, the higher the temperature the quicker, so If you store your tool for longer periods of time without using it, recharge the batteries every month or two. This will prolong battery life.

13 TECHNICAL DATA

Model No.	POWXQ5234
Chuck	13 mm keyless
Power supply	18 Volt DC
Gear Train	2-Speed
No Load Speed	0-470/0-1800 min^{-1}
Clutch	25 Positions
Charger input	230 V 50 Hz
Charger Rate	1 hour
Torque	40 Nm (MAX.)
Battery Pack Model	POWXQ5234B
Battery Type	NiMh
Battery capacity	2500 mAh

14 SOUND EMISSION

Noise emission values measured according to relevant standard. (K=3)

	POWXQ5234
LpA (Sound pressure level)	86 dB(A)
LwA (Sound power level)	97 dB(A)

The machine may exceed 85 dB(A) at the workplace. In this case, noise protection measures need to be introduced to protect the user.

	POWXQ5234	
Vibration (a_w) :	6.07 m/s^2	K= 1.5 m/s^2

15 WARRANTY

- This product is warranted for a 5-year period effective from the date of purchase by the first user.
- This warranty covers all material or production flaws. It does not include defective parts subject to normal wear & tear such as bearings, brushes, cables, and plugs, or accessories such as drills, drill bits, saw blades, etc. ; damage or defects resulting from maltreatment, accidents or alterations; nor the cost of transportation.
- This warranty covers all material or production flaws, excluding batteries, chargers, defective parts subject to normal wear and tear such as, in particular, bearings, brushes, cables, plugs… Accessories such as drills, drill bits, saw blades etc. also do not fall under this warranty.
- Damage and/or defects resulting from inappropriate use also do not fall under the warranty provisions.
- We also disclaim all liability for any bodily injury resulting from inappropriate use of the tool.
- Repairs may only be carried out by an authorised customer service centre for Powerplus tools.

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- You can always obtain more information at the number 00 32 3 292 92 90.
- Any transportation costs shall always be borne by the customer, unless agreed otherwise in writing.
- At the same time, no claim can be made on the warranty if the damage of the device is the result of negligent maintenance or overload.
- Definitely excluded from the warranty is damage resulting from fluid permeation, excessive dust penetration, intentional damage (on purpose or by gross carelessness), inappropriate usage (use for purposes for which the device is not suitable), incompetent usage (e.g. not following the instructions given in the manual), inexpert assembly, lightning strike, erroneus net voltage. This list is not exhaustive.
- Acceptance of claims under warranty can never lead to the prolongation of the warranty period nor commencement of a new warranty period in case of a device replacement.
- Devices or parts which are replaced under the warranty therefore remain the property of Varo NV.
- We reserve the right to reject a claim whenever the purchase cannot be verified or when it is clear that the product has not been properly maintained. (Clean ventilation slots, carbon brushes serviced regularly, etc.).
- Your purchase receipt must be kept as proof of date of purchase.
- Your appliance must be returned undismantled to your dealer in an acceptably clean state, (in its original blow-moulded case if applicable to the unit), accompanied by proof of purchase.

16 ENVIRONMENT

Should your appliance need replacement after extended use, do not dispose of it with the household refuse, but in an environmentally safe way.
Waste of electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

16.1 Battery pack

This product contains nickel-metal hydride. To preserve natural resources, please recycle or dispose of batteries properly. Local, state or federal laws may prohibit disposal of nickel-metal hydride batteries in ordinary trash. Consult you local waste authority for information regarding available recycling and/or disposal options.

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17 DECLARATION OF CONFORMITY

CE

varo

VARO N.V. - Joseph Van Instraat 9 - BE2500 Lier - BELGIUM, declares that,
Product : Cordless Impact Drill 18V
Trade mark : POWERplus XQ
Model : POWXQ5234

Is in conformity with the essential requirements and other relevant provisions of the applicable European Directives, based on the application of European harmonized standards. Any unauthorized modification of the apparatus voids this declaration.

European Directives (including, if applicable, their amending directives):
2004/108/EC
2006/42/EC

European harmonized standards, (including, if applicable, their amendments):
EN60745-1 : 2009
EN60745-2-1 : 2010
EN60745-2-2 : 2010
EN55014-1 : 2006
EN55014-2 : 1997

The undersigned acts on behalf and under the power of attorney of the company management,

Philippe Vankerkhove
Certification Manager
Date : 17/01/2012

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